



PCT

## RAW SEQUENCE LISTING

DATE: 07/14/2004

PATENT APPLICATION: US/10/500,672

TIME: 09:22:37

Input Set : A:\20954p.txt

Output Set: N:\CRF4\07142004\J500672.raw

4 <110> APPLICANT: Bednarek, Maria A.  
 6 <120> TITLE OF INVENTION: SELECTIVE MELANIN-CONCENTRATING HORMONE  
 7 TYPE-1 RECEPTOR AGONISTS  
 10 <130> FILE REFERENCE: 20954P  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/500,672  
 C--> 12 <141> CURRENT FILING DATE: 2004-07-02  
 12 <150> PRIOR APPLICATION NUMBER: PCT/US03/00241  
 13 <151> PRIOR FILING DATE: 2003-01-06  
 15 <150> PRIOR APPLICATION NUMBER: 60/347,191  
 16 <151> PRIOR FILING DATE: 2002-01-09  
 18 <160> NUMBER OF SEQ ID NOS: 38  
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 19  
 24 <212> TYPE: PRT  
 25 <213> ORGANISM: Human  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: DISULFID  
 29 <222> LOCATION: (7)...(16)  
 31 <400> SEQUENCE: 1  
 32 Ala Phe Asp Met Leu Arg Cys Met Leu Gly Arg Val Tyr Arg Pro Cys  
 33 1 5 10 15  
 34 Trp Gln Val  
 38 <210> SEQ ID NO: 2  
 39 <211> LENGTH: 11  
 40 <212> TYPE: PRT  
 41 <213> ORGANISM: Artificial Sequence  
 43 <220> FEATURE:  
 44 <223> OTHER INFORMATION: MCH Analog  
 W--> 46 <221> NAME/KEY: DISULFID  
 47 <222> LOCATION: (2)...(11)  
 W--> 49 <221> ACETYLTATION  
 50 <222> LOCATION: (1)...(1)  
 W--> 52 <221> AMIDATION  
 53 <222> LOCATION: (11)...(11)  
 W--> 55 <400> 2  
 56 Arg Cys Met Leu Gly Arg Val Tyr Arg Pro Cys  
 57 1 5 10  
 60 <210> SEQ ID NO: 3  
 61 <211> LENGTH: 11  
 62 <212> TYPE: PRT  
 63 <213> ORGANISM: Artificial Sequence  
 65 <220> FEATURE:

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66 <223> OTHER INFORMATION: MCH Analog
W--> 68 <221> NAME/KEY: MOD_RES
69 <222> LOCATION: (1)...(1)
70 <223> OTHER INFORMATION: Xaa = des-amino-arginine
W--> 72 <221> DISULFID
73 <222> LOCATION: (2)...(11)
W--> 75 <221> AMIDATION
76 <222> LOCATION: (11)...(11)
W--> 78 <400> 3
W--> 79 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys
80 1 5 10
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 11
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: MCH Analog
W--> 91 <221> NAME/KEY: MOD_RES
92 <222> LOCATION: (1)...(1)
93 <223> OTHER INFORMATION: Xaa = D-arginine
W--> 95 <221> DISULFID
96 <222> LOCATION: (2)...(11)
W--> 98 <221> AMIDATION
99 <222> LOCATION: (11)...(11)
W--> 101 <400> 4
W--> 102 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys
103 1 5 10
106 <210> SEQ ID NO: 5
107 <211> LENGTH: 11
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: MCH Analog
W--> 114 <221> NAME/KEY: MOD_RES
115 <222> LOCATION: (1)...(1)
116 <223> OTHER INFORMATION: Xaa = D-arginine
W--> 118 <221> DISULFID
119 <222> LOCATION: (2)...(11)
W--> 121 <221> ACETYLATION
122 <222> LOCATION: (1)...(1)
W--> 124 <221> AMIDATION
125 <222> LOCATION: (11)...(11)
W--> 127 <400> 5
W--> 128 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys
129 1 5 10
132 <210> SEQ ID NO: 6
133 <211> LENGTH: 11
134 <212> TYPE: PRT
135 <213> ORGANISM: Artificial Sequence

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137 <220> FEATURE:
138 <223> OTHER INFORMATION: MCH Analog
W--> 140 <221> NAME/KEY: MOD_RES
141 <222> LOCATION: (1)...(1)
142 <223> OTHER INFORMATION: Xaa = D-alanine
W--> 144 <221> DISULFID
145 <222> LOCATION: (2)...(11)
W--> 147 <221> ACETYLTATION
148 <222> LOCATION: (1)...(1)
W--> 150 <221> AMIDATION
151 <222> LOCATION: (11)...(11)
W--> 153 <400> 6
W--> 154 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys
155 1 5 10
158 <210> SEQ ID NO: 7
159 <211> LENGTH: 11
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: MCH Analog
W--> 166 <221> NAME/KEY: MOD_RES
167 <222> LOCATION: (1)...(1)
168 <223> OTHER INFORMATION: Xaa = D-norleucine
W--> 170 <221> DISULFID
171 <222> LOCATION: (2)...(11)
W--> 173 <221> ACETYLTATION
174 <222> LOCATION: (1)...(1)
W--> 176 <221> AMIDATION
177 <222> LOCATION: (11)...(11)
W--> 179 <400> 7
W--> 180 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys
181 1 5 10
184 <210> SEQ ID NO: 8
185 <211> LENGTH: 11
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: MCH Analog
W--> 192 <221> NAME/KEY: MOD_RES
193 <222> LOCATION: (1)...(1)
194 <223> OTHER INFORMATION: Xaa = D-proline
W--> 196 <221> DISULFID
197 <222> LOCATION: (2)...(11)
W--> 199 <221> ACETYLTATION
200 <222> LOCATION: (1)...(1)
W--> 202 <221> AMIDATION
203 <222> LOCATION: (11)...(11)
W--> 205 <400> 8
W--> 206 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys

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207 1 5 10
210 <210> SEQ ID NO: 9
211 <211> LENGTH: 11
212 <212> TYPE: PRT
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: MCH Analog
W--> 218 <221> NAME/KEY: MOD_RES
219 <222> LOCATION: (1)...(1)
220 <223> OTHER INFORMATION: Xaa = D-phenylalanine
W--> 222 <221> DISULFID
223 <222> LOCATION: (2)...(11)
W--> 225 <221> ACETYLATION
226 <222> LOCATION: (1)...(1)
W--> 228 <221> AMIDATION
229 <222> LOCATION: (11)...(11)
W--> 231 <400> 9
W--> 232 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys
233 1 5 10
236 <210> SEQ ID NO: 10
237 <211> LENGTH: 11
238 <212> TYPE: PRT
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: MCH Analog
W--> 244 <221> NAME/KEY: MOD_RES
245 <222> LOCATION: (1)...(1)
246 <223> OTHER INFORMATION: Xaa = D-asparagine
W--> 248 <221> DISULFID
249 <222> LOCATION: (2)...(11)
W--> 251 <221> ACETYLATION
252 <222> LOCATION: (1)...(1)
W--> 254 <221> AMIDATION
255 <222> LOCATION: (11)...(11)
W--> 257 <400> 10
W--> 258 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys
259 1 5 10
262 <210> SEQ ID NO: 11
263 <211> LENGTH: 11
264 <212> TYPE: PRT
265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: MCH Analog
W--> 270 <221> NAME/KEY: MOD_RES
271 <222> LOCATION: (1)...(1)
272 <223> OTHER INFORMATION: Xaa = D-serine
W--> 274 <221> DISULFID
275 <222> LOCATION: (2)...(11)
W--> 277 <221> ACETYLATION

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Input Set : A:\20954p.txt

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278 <222> LOCATION: (1)...(1)  
W--> 280 <221> AMIDATION  
281 <222> LOCATION: (11)...(11)  
W--> 283 <400> 11  
W--> 284 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys  
285 1 5 10  
288 <210> SEQ ID NO: 12  
289 <211> LENGTH: 11  
290 <212> TYPE: PRT  
291 <213> ORGANISM: Artificial Sequence  
293 <220> FEATURE:  
294 <223> OTHER INFORMATION: MCH Analog  
W--> 296 <221> NAME/KEY: MOD\_RES  
297 <222> LOCATION: (1)...(1)  
298 <223> OTHER INFORMATION: Xaa = D-glutamine  
W--> 300 <221> DISULFID  
301 <222> LOCATION: (2)...(11)  
W--> 303 <221> ACETYLATION  
304 <222> LOCATION: (1)...(1)  
W--> 306 <221> AMIDATION  
307 <222> LOCATION: (11)...(11)  
W--> 309 <400> 12  
W--> 310 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys  
311 1 5 10  
314 <210> SEQ ID NO: 13  
315 <211> LENGTH: 11  
316 <212> TYPE: PRT  
317 <213> ORGANISM: Artificial Sequence  
319 <220> FEATURE:  
320 <223> OTHER INFORMATION: MCH Analog  
W--> 322 <221> NAME/KEY: MOD\_RES  
323 <222> LOCATION: (1)...(1)  
324 <223> OTHER INFORMATION: Xaa = D-lysine  
W--> 326 <221> DISULFID  
327 <222> LOCATION: (2)...(11)  
W--> 329 <221> ACETYLATION  
330 <222> LOCATION: (1)...(1)  
W--> 332 <221> AMIDATION  
333 <222> LOCATION: (11)...(11)  
W--> 335 <400> 13  
W--> 336 Xaa Cys Met Leu Gly Arg Val Tyr Arg Pro Cys  
337 1 5 10  
340 <210> SEQ ID NO: 14  
341 <211> LENGTH: 11  
342 <212> TYPE: PRT  
343 <213> ORGANISM: Artificial Sequence  
345 <220> FEATURE:  
346 <223> OTHER INFORMATION: MCH Analog  
W--> 348 <221> NAME/KEY: MOD\_RES

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/500,672

DATE: 07/14/2004  
TIME: 09:22:38

Input Set : A:\20954p.txt  
Output Set: N:\CRF4\07142004\J500672.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 1  
Seq#:4; Xaa Pos. 1  
Seq#:5; Xaa Pos. 1  
Seq#:6; Xaa Pos. 1  
Seq#:7; Xaa Pos. 1  
Seq#:8; Xaa Pos. 1  
Seq#:9; Xaa Pos. 1  
Seq#:10; Xaa Pos. 1  
Seq#:11; Xaa Pos. 1  
Seq#:12; Xaa Pos. 1  
Seq#:13; Xaa Pos. 1  
Seq#:14; Xaa Pos. 1  
Seq#:15; Xaa Pos. 1  
Seq#:18; Xaa Pos. 5  
Seq#:19; Xaa Pos. 5  
Seq#:21; Xaa Pos. 5  
Seq#:27; Xaa Pos. 5  
Seq#:29; Xaa Pos. 1  
Seq#:30; Xaa Pos. 1  
Seq#:31; Xaa Pos. 1,3  
Seq#:32; Xaa Pos. 1,3  
Seq#:33; Xaa Pos. 1  
Seq#:34; Xaa Pos. 1

## VERIFICATION SUMMARY

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Input Set : A:\20954p.txt

Output Set: N:\CRF4\07142004\J500672.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:46 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:49 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:52 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:55 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2  
L:68 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:72 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:75 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:78 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:91 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:95 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:98 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:101 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:114 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:118 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:127 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5  
L:128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:140 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:147 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:150 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:153 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6  
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:166 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:170 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:173 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:176 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:179 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:192 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:196 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:199 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:202 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:205 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:218 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:222 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:225 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:228 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:231 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9  
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:244 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:248 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10

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Input Set : A:\20954p.txt

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L:251 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:254 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:257 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:270 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:274 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:280 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:283 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11  
L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:296 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:300 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:303 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:306 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:309 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12  
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:322 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:326 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:329 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:332 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:335 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13  
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:348 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:352 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:355 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:358 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:361 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14  
L:362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:374 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:378 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15  
L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:394 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:416 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:438 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:464 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:490 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:512 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:538 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:560 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:582 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:604 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:626 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:648 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:674 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:696 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!



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L:710 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:722 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:736 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:748 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:778 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:805 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:826 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34  
L:831 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0